

AMENDMENTS TO THE CLAIMS

1. (Original) An apparatus for engaging a rotary driving member with an element to be driven, the apparatus including a housing containing:

a first rotatable member capable of being axially moved into positive engagement with a second rotatable member, one of the first or the second rotatable members being drivably connected to the rotary driving member and the other of the first or the second rotatable members being drivably connected to the element to be driven such that positive engagement between the first and second rotatable members effects engagement of the rotary driving member with the element to be driven;

a piston slidably mounted in the housing, the piston being operably connected with the first rotatable member such that pressure acting on one end of the piston effects axial movement of the piston with respect to the housing, thereby effecting axial movement of the first rotatable member; and

a delay device for delaying the establishment of a positive connection between the first and second rotatable members, the delay device having:

means for producing a friction drive between the first and second rotatable members to cause rotation of the rotatable member that is drivably connected to the element to be driven prior to engagement of the first and second rotatable members;

and a friction drive actuator, the actuator being axially movable to activate the friction drive;

wherein the piston has a passageway through it such that pressure acting on the end of the piston also acts on the friction drive actuator to effect movement of it.

2. (Original) An apparatus according to claim 1, wherein the axially movable first rotatable member is drivably connected to the rotary driving member and the second rotatable member is drivably connected to the element to be driven.
3. (Original) An apparatus according to claim 1, wherein the second rotatable member is drivably connected to the rotary driving member and the axially movable first rotatable member is drivably connected to the element to be driven.
4. (Currently Amended) An apparatus according to ~~any one of claims 1 to 3~~ claim 1, having restraining means to restrict initial axial movement of the piston, such that pressure acting on the piston produces movement of the friction drive actuator prior to movement of the piston.
5. (Original) An apparatus according to claim 4, wherein the restraining means is a spring.
6. (Currently Amended) An apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the first rotatable member moves in a first direction into positive engagement with the second rotatable member;

the friction drive actuator moves in a second direction to activate the friction drive; and

the first direction is substantially opposite the second direction.

7. (Original) An apparatus according to claim 6, wherein the piston includes a first end portion and a second end portion, each end portion being slidably received in a respective first and second cylinders formed in opposite ends of the housing;

the passageway opens into one of the cylinders via a radial hole in the piston, such that pressure from the passageway acts on the side of that cylinder; and

fluid communication means are provided between the friction drive actuator and the side of the cylinder so that pressure acting on said side of the cylinder also acts the friction drive actuator.

8. (Original) An apparatus according to claim 7 arranged so that pressure acting on the first end portion axially moves the piston so as to effect engagement of the first rotatable member with the second rotatable member, and pressure acting on the second end portion axially moves the piston so as to effect disengagement of the same.

9. (Currently Amended) An apparatus according to ~~either one of claims 7 or 8~~ claim 7, wherein the passageway extends through the piston between the first cylinder and the second cylinder.

10. (Currently Amended) An apparatus according to ~~any one of claims 7 to 9~~ claim 7, wherein the fluid communication means includes a bore through the housing.

11. (Currently Amended) An apparatus according to ~~any one of claims 7 to 10~~ claim 7, wherein sealing means are located around the piston at a predetermined axial distance from each side of the radial hole, the sealing means defining a zone in which pressure from the passageway acts.

12. (Original) An apparatus according to claim 11, wherein the sealing means are sealing rings positioned around the piston.

13. (Currently Amended) An apparatus according to ~~either one of claim 11 or 12~~ claim 11, wherein the sealing means are positioned such that the zone is isolated from the fluid communication means when the piston has moved the first rotatable member a predetermined distance towards engagement with the driven member.

14. (Currently Amended) An apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the piston includes a valve arrangement whereby the pressure ceases to act on the friction drive actuator just before or at the same time as positive engagement is established between the first and second rotatable members.

15. (Currently Amended) An apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the friction drive actuator is biased away from activating the friction drive.

the gear being engageable with the first rotatable member to effect engagement between the first and second rotatable members.

22. (Original) An apparatus according to claim 21, wherein the gear mounted on the shaft is axially movable, and the friction drive actuator is arranged to act on the gear to push it to activate the friction drive.

23. (Currently Amended) An apparatus according to ~~either one of claims 21 or 22~~ claim 21, wherein the first rotatable member includes a sleeve coaxial with the shaft, the sleeve being engageable with the gear.

24. (Original) An apparatus according to claim 23, wherein the piston includes a fork member with fingers that engage a groove in the outer surface of the sleeve.

25. (Currently Amended) An apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the pressure is provided by compressed gas.

26. (Currently Amended) An apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the pressure is provided by compressed air.